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NEW SERIES

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# BOWDOIN COLLEGE BULLETIN



MEDICAL DEPARTMENT NUMBER

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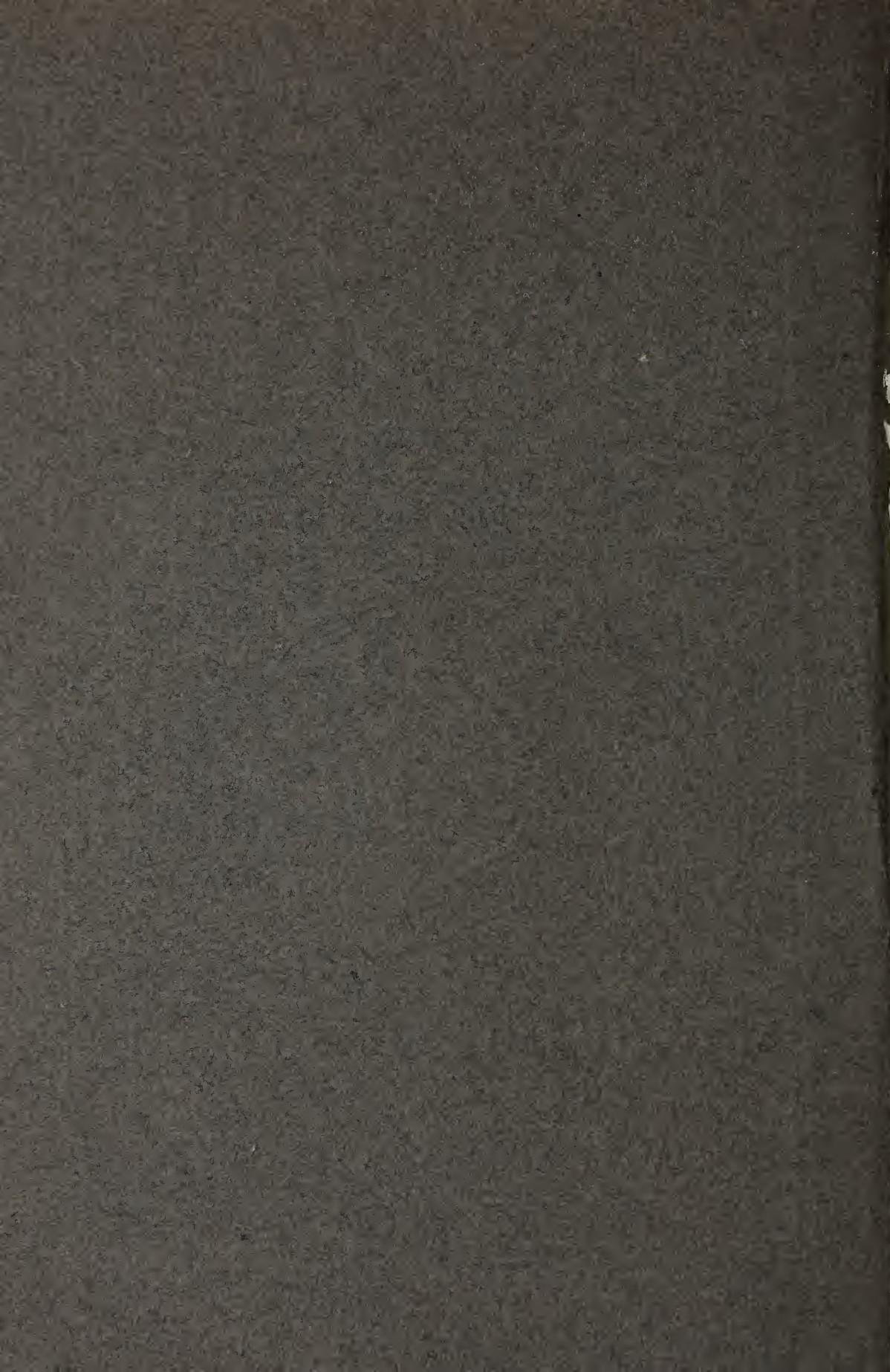


BRUNSWICK, MAINE

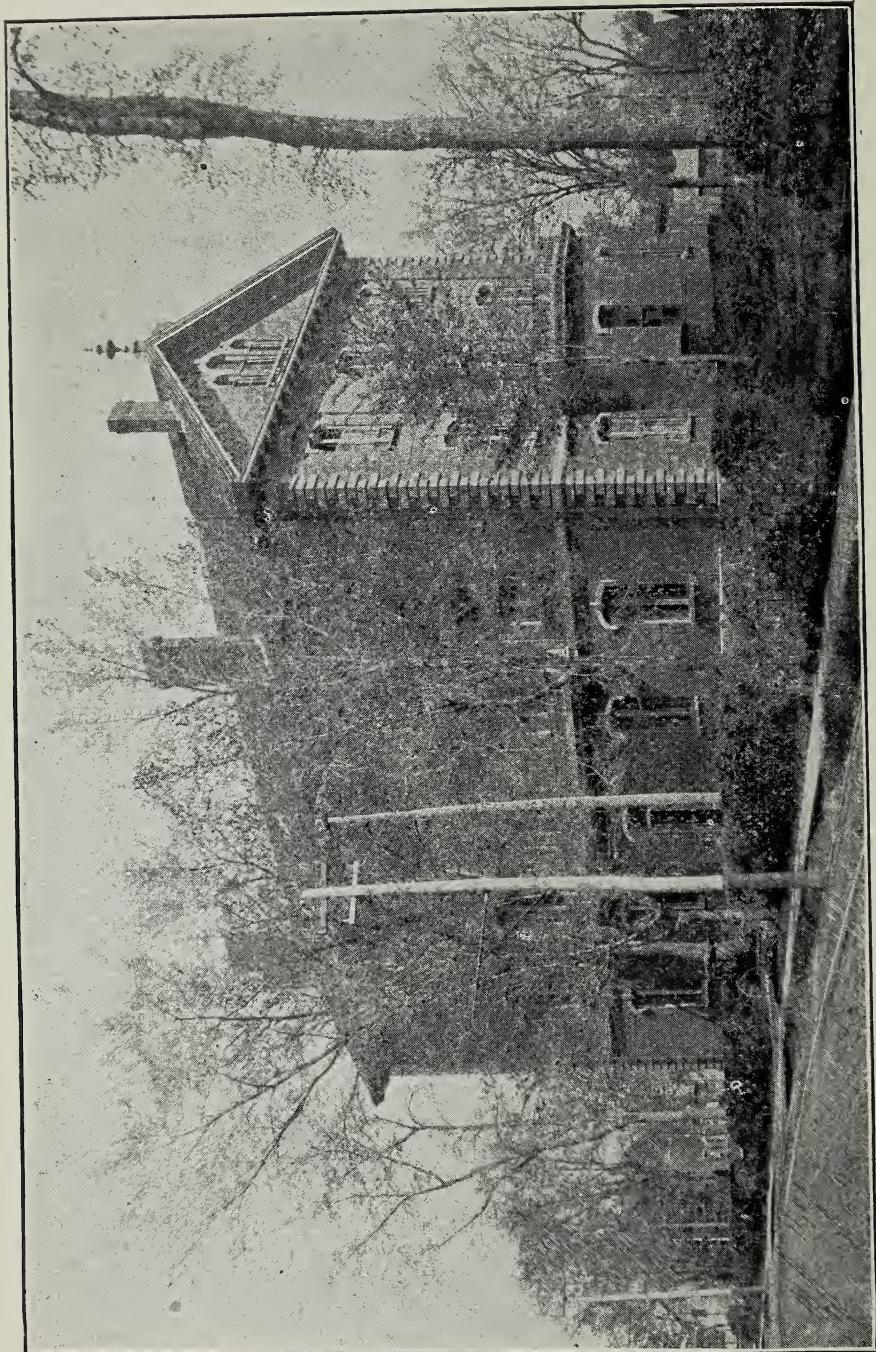
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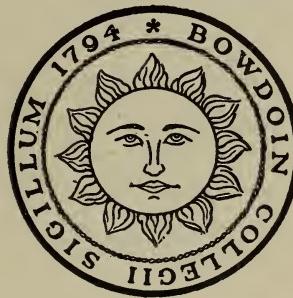




SCHOOL BUILDING, BRUNSWICK

CATALOGUE OF THE  
MEDICAL SCHOOL OF  
MAINE, THE MEDICAL  
DEPARTMENT OF  
BOWDOIN COLLEGE  
FOR THE NINETIETH YEAR

1909



1910

BRUNSWICK, MAINE  
PRINTED FOR THE COLLEGE, MDCCCCIX

PRESS OF THE BRUNSWICK RECORD  
BRUNSWICK, MAINE

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## GRADUATES OF 1909.

---

HENRY WHITING BALL .....	Mt. Desert Ferry
WILLARD HIRAM BUNKER .....	Red Beach
JAMES FRANCIS COX, A. B. ....	Houlton
CHARLES HUNTER CUNNINGHAM, A. B.....	Strong
CHARLES LEVERETT CURTIS.....	Middleton, Mass.
GEORGE IVERY HIGGINS.....	Clinton
HARRIS PAGE ILLSLEY .....	Limington
IRVING ELLIS MABRY, A. B.....	East Hiram
WALTER IRVING MERRILL.....	Portland
JOHN LUKE MURPHY.....	Bartlett, N. H.
SIDNEY EUGENE PENDEXTER.....	Portland
HUGH FRANCIS QUINN, A. B .....	Bangor
ARCHIBALD CHARLES ROSS.....	Portland
CLARENCE RAYMOND SIMMONS.....	Appleton
OTIS FRANKLIN SIMONDS, A. B.....	Portland
IVAN STAPLES .....	Limerick
HERBERT ELLERY THOMPSON, A. B.....	Port'and
WILLIAM COTMAN WHITMORE, A. B.....	Portland

## STUDENTS IN 1909.

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### FOURTH YEAR.

Name	Residence	Room
Ball, Henry Whiting.....	<i>Mt. Desert Ferry</i> .....	*568 Congress St.
Bunker, Willard Hiram.....	<i>Red Beach</i> .....	435 St. John St.
Cox, James Francis, A. B.....	<i>Houlton</i> .....	294 Brackett St.
Cunningham, Charles Hunter, A. B. <i>Strong</i> .....		174 Neal St.
Curtis, Charles Leverett.....	<i>Middleton, Mass.</i> .....	568 Congress St.
Higgins, George Ivery.....	<i>Clinton</i> .....	280 Brackett St.
Illsley, Harris Page.....	<i>Limington</i> .....	194 Grant St.
Mabry, Irving Ellis, A. B.....	<i>East Hiram</i> .....	89 Spruce St.
Merrill, Walter Irving, A. B.....	<i>Portland</i> .....	435 St. John St.
Murphy, John Luke.....	<i>Bartlett, N. H.</i> .....	174 Neal St.
Pendexter, Sidney Eugene.....	<i>Portland</i> .....	561 Congress St.
Quinn, Hugh Francis, A. B.....	<i>Bangor</i> .....	294 Brackett St.
Ross, Archibald Charles.....	<i>Portland</i> .....	280 Brackett St.
Simmons, Clarence Raymond .....	<i>Appleton</i> .....	174 Neal St.
Simonds, Otis Franklin, A. B.....	<i>Portland</i> .....	82 India St.
Staples, Ivan.....	<i>Limerick</i> .....	219 High St.
Thompson, Herbert Ellery, A. B. ....	<i>Portland</i> .....	83 Casco St.
Whitmore, William Cotman, A. B. ....	<i>Portland</i> .....	83 Myrtle St.

### THIRD YEAR.

Name	Residence	Room
Abbott, Percy Hobbs.....	<i>Waterboro</i> .....	44 Ellsworth St.
Anderson, Harry Edward.....	<i>South Limington</i> .....	85 Spring St.
Brown, Elmer Jonathan .....	<i>Strong</i> .....	851 Congress St.
Bryant, Hannibal Hamlin, Jr., A. B. ....	<i>Waterville</i> .....	22 Charles St.
Carpenter, Lester Warren .....	<i>North Waterboro</i> .....	123 Oxford St.
Deering, Charles Fuller .....	<i>Winslow's Mills</i> ....	22 Chadwick St.
Drummond, Joseph Blake, A. B. ....	<i>Portland</i> .....	105 Elwell St.
Fahay, William Joseph .....	<i>Lewiston</i> .....	44 Ellsworth St.

\* The rooms of Third and Fourth Year students are in Portland unless otherwise stated.

Name	Residence	Room
Hall, Leo Frederick.....	<i>Augusta</i> .....	44 Ellsworth St.
Holt, Erastus Eugene, Jr., A. B.....	<i>Portland</i> .....	723 Congress St.
Humphreys, Ernest Davis.....	<i>Henderson</i> .....	22 Chadwick St.
Leighton, Adam Phillips, Jr.....	<i>Portland</i> .....	261 Western Promenade
Marshall, Linn Bayard .....	<i>Portland</i> .....	302 Brackett St.
Mikelsky, Frank, A. B.....	<i>Brunswick</i> .....	851 Congress St.
Milliken, James Atwood Crowell....	<i>New Bedford, Mass.</i> 9	Wescott St.
Ostergren, Christian Vilhelm. ....	<i>Stockholm, Sweden</i> ..	22 Charles St.
Russell, Blinn Whitmore, A. B.....	<i>Farmington</i> .....	302 Brackett St.
Traynor, Charles Francis.....	<i>Biddeford</i> .....	20 Bramhall St.
Valladares, Ricardo Geronimo.....	<i>Santa Clara, Cuba</i> ...9	Wescott St.
Webber, Merlon Ardeen, A. B.....	<i>Fairfield</i> .....	14 Wescott St.
Webber, Millard Carroll, A. B.....	<i>Fairfield</i> .....	14 Wescott St.

**SECOND YEAR.**

Name	Residence	Room
Baldwin, Albert Kilburn, A. B.....	<i>Brunswick</i> .....	10 Harpswell, Pl.
Clement, James Donald.....	<i>Belfast</i> .....	10 M. H.
Dolley, Frank Stephen.....	<i>Brunswick</i> .....	7 School St.
Jackson, Elmer Herbert.....	<i>Jefferson</i> .....	2 Bath St.
King, Elmer Henry.....	<i>Syracuse, N. Y</i> .....	10 M. H.
Long, Paul Raymond.....	<i>Parsonsfield</i> .....	28 Cumberland St.
Nason, Charles Jewell.....	<i>Hampden</i> .....	28 Cumberland St.
Robinson, Carl Merrill, A. B.....	<i>Portland</i> .....	7 A. H.
Stanwood, Harold William.....	<i>Rumford Falls</i> .....	22 M. H.
Stetson, Rufus Edwin, A. B.....	<i>Damariscotta</i> .....	262 Maine St.
Stevens, Carl Hervey .....	<i>Northport</i> .....	185 Maine St.
Taylor, Cornelius John.....	<i>Bangor</i> .....	185 Maine St.
Thewlis, Malford Wilcox.....	<i>Providence, R. I.</i> ....	185 Maine St.
Tobey, Harold Grant, A. B.....	<i>Clinton, Mass.</i> .....	7 A. H.
Wharton, Charles Green .....	<i>Tulare, Cal.</i> .....	7 School St.
Wollin, Gustaf Fritz Robert.....	<i>Ystad, Sweden</i> ..	10 Cumberland St.

**FIRST YEAR.**

Name	Residence	Room
Bennett, Roland Joseph.....	<i>Dover, N. H.</i> ....	33 Cumberland St.
Brown, Freeman Fletcher.....	<i>Vinal Haven</i> .....	1 High St.
Buck, George Henry.....	<i>Harrison</i> .....	4 Cleaveland St.
Carney, Harold Edwards .....	<i>Portland</i> .....	11 Everett St.

## MEDICAL SCHOOL OF MAINE

Name	Residence	Room
Dunn, Archibald Wallace.....	<i>Auburn</i> .....	50 Federal St.
Fogg, Neil Augustus.....	<i>Freeport</i> .....	Freeport
Harris, William Matthew.....	<i>Brunswick</i> .....	Δ. K. E. House
Hammond, Walter Jean, A. B.....	<i>Howland</i> .....	30 Cumberland St.
Hendee, Walter Whitman.....	<i>Augusta</i> .....	174 Maine St.
Kane, Howard Francis.....	<i>Machias</i> .....	84 Federal St.
Jackson, Sumner Waldron.....	<i>Waldoboro</i> .....	84 Federal St.
Johnson, Henry Lincoln.....	<i>Brunswick</i> .....	44 Union St.
Lente, Harry Hallock.....	<i>South Thomaston</i> .....	11 Everett St.
Merrill, Clyde Harold.....	<i>Auburn</i> .....	10 Cumberland St.
Nolin, Frank Elmer.....	<i>Skowhegan</i> .....	84 Federal St.
Pratt, Harold Sewall.....	<i>Farmington</i> .....	Δ. T. House
Rosen, William.....	<i>New Bedford, Mass.</i> ..	185 Maine St.
Scammon, Clarence Linwood.....	<i>Hartland</i> .....	84 Federal St.
Stanley, Oramel Henry.....	<i>Fryeburg</i> .....	4 Cleaveland St.
Sturtevant, James Melvin.....	<i>Dixfield</i> .....	Θ. Δ. X. House
Wentworth, John Alexander.....	<i>Portland</i> .....	22 A. H.
Wilson, Charles Moore.....	<i>Waterford</i> .....	6 Cleaveland St.

## ANNOUNCEMENT.

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The Medical School of Maine, established by the first legislature of the State, was by its charter placed under the control of the Boards of Trustees and Overseers of Bowdoin College, of which institution it is the Medical Department.

Its course of instruction covers four years of eight months each. The studies are distributed through the curriculum according to the following schedule:

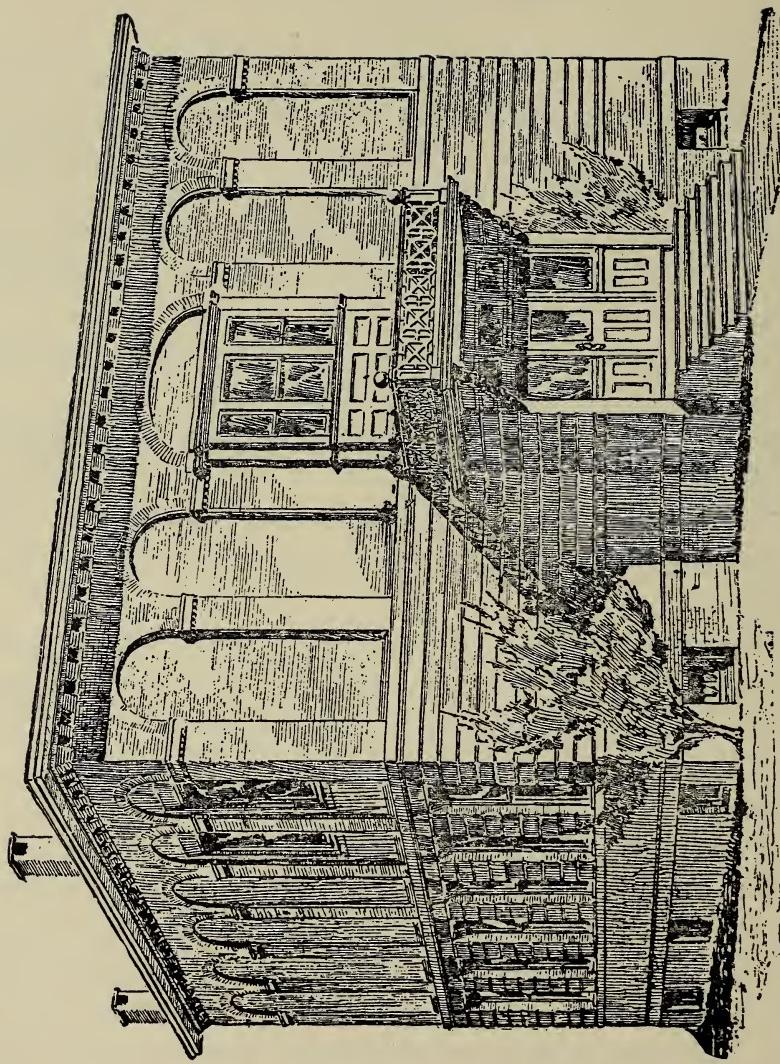
*First Year:* Anatomy, Embryology, Histology, Physiology, Chemistry and Personal Hygiene.

*Second Year:* Anatomy, Physiology, Chemistry, Pathology, Bacteriology.

*Third Year:* Internal Medicine, Surgery, Materia Medica and Therapeutics, Diseases of Women, Obstetrics, Diseases of the Skin.

*Fourth Year:* Internal Medicine, Surgery, Materia Medica and Therapeutics, Medical Jurisprudence, Public Hygiene, Diseases of Women, Diseases of Children, Diseases of the Mind, Neurology, Clinical instruction in Diseases of the Skin, Diseases of the Genito-Urinary System, Diseases of the Eye, Diseases of the Ear, Diseases of the Joints, Diseases of the Nose and Throat.

The students of the first and second years are instructed at Brunswick, where the school has been situated since its foundation in 1820, and where the facilities are excellent for imparting a knowledge of the primary branches. The third and fourth year classes are taught in Portland on account of the superior clinical advantages afforded in that city. The building designed for the use of the school and now occupied by it furnishes ample accommodations for the advanced classes. The location of the building is on Chadwick Street, near the Maine General Hospital, in which institution nearly all the teachers in the



SCHOOL BUILDING, PORTLAND

school are medical or surgical officers and the Directors of which are in full sympathy with the purposes of the Faculty.\*

While the Maine General Hospital (a view of which is given on the last page of the book) is the chief source of supply of clinical material for the school, Portland has a number of other institutions, such as the Maine Eye and Ear Infirmary, the Portland Charitable Dispensary, the Children's Hospital, Female Orphan Asylum, St. Elizabeth's Orphan Asylum, the Holy Innocents Home, the Maine School for the Deaf, which will contribute to the bedside instruction of the students; and the various teachers, as opportunity permits, will show individual pupils interesting cases in their private practice.

The ninetieth annual course will begin on Thursday, the 21st of October, 1909, and will continue eight months.

Examinations for *admission to the school* will be held at nine o'clock on the morning of the first day, Thursday the 21st of October, in Brunswick.

Final examinations for each class will be held in the period from the 8th to the 22d of June, 1910, inclusive.

Re-examinations, deferred examinations and examinations for advanced standing for those who desire to enter the second year will be held in Brunswick on Friday, the 22d of October. Examinations in anatomy at nine o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for advanced standing for those wishing to enter the third year will be held in Portland on Saturday, October 23d. Examinations in anatomy at nine o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Port-

\*The electric cars (spring Street line—blue) run on Vaughan Street, which is but one block from the School; and free transfers may be had from the Congress Street line (green) and the Middle Street line (red), so that one can easily reach the School from either end of the city, and from the Union, Grand Trunk and Rochester railway stations.

land on Friday and Saturday, October 22d and 23d, at hours to be hereafter appointed.

At the end of the first, second and third years, students who have passed successful examinations will receive certificates from the Dean.

A student who fails to pass any branch at the required examination in June, may present himself for re-examination at the beginning of the next course. If he fails at this examination he shall not again be examined in that branch until the expiration of the year, unless admitted to conditions by vote of the faculty on recommendation of the head of the department in which he has failed.

On recommendation of the head of a department, any student who has failed on examinations as above provided in the study of that department, may by vote of the faculty be allowed to enter upon the work of the next year, but he shall not be admitted to any examination of that year until he shall have passed a satisfactory examination in the study or studies which he had previously failed to pass.

No student will be admitted to the privilege of conditions if he has failed in more than two departments.

Every student who fails to maintain a satisfactory standard of work, will be warned of his deficiency from time to time, before the end of the term.

An examination which is not complete receives no consideration.

The systematic courses of instruction will begin on Monday morning, the twenty-sixth of October.

On arriving in Brunswick students should apply at the office of the Dean in the medical building, enter their names, receive directions concerning their examinations, if any are needed, pay their fees, and be advised as to boarding places.

In Portland they should apply at the office of the medical building for the same purposes. Dr. Charles O. Hunt will act as deputy dean.

## EXPENSES.

*For Instruction:*

In each of the required four years \$100. After attendance upon four full courses payment of the Matriculation fee only will be required.

*For Examinations:*

Payable at the close of the term of instruction,

In Anatomy,	\$5.00
In Physiology,	5.00
In Chemistry,	5.00
In Bacteriology and Pathology,	5.00
In Obstetrics,	5.00

These five fees are credited on the diploma or graduation fee.

For every re-examination in any of the departments in any year, \$3.00

This fee is not credited on the diploma fee.

For examination or re-examination in any branch at a time not regularly appointed, the student shall pay a fee of \$5.00 in addition to the prescribed fee for that examination.

*Miscellaneous:*

The Matriculation fee of \$5.00 is required of every student each year.

For materials used in the chemical laboratory courses, \$3.00 for first course, \$2.00 for second course, payable in advance at the Dean's office.

For material used in the physiological laboratory \$2.00 for first course, \$1.00 for second course, payable in advance at Dean's office.

For anatomical material, its cost, payable in advance.

For graduation fee (not returnable), including the parchment diploma, \$25. This will have been paid in the examination fees of the previous years.

Graduates of other schools, who have been engaged three years in the regular practice of medicine, may receive a general ticket upon presentation of their diplomas and payment of the matriculation fee. Graduates of other schools are not eligible for a degree from this school without attendance upon a full course of instruction immediately preceding the examination for such a degree.

All fees must be paid in cash and in advance.

Furnished rooms can be obtained at a rental of from \$1.50 to \$2.50 per week according to the conveniences. A sharing of the above expenses by two students evidently brings the cost within reasonable limits.

The price of board is from \$3.00 to \$3.50 a week.

The cost of living in Portland has been found to be not in excess of that at Brunswick.

\$15 to \$25 a year covers the cost of books.

#### REQUIREMENTS FOR ADMISSION.

Requirements for admission to the first year are those of the Association of American Medical Colleges, with the exception that one year of Chemistry be specifically required.

Section 1. (a) A bachelor's degree from an approved college or university, or (b) or (c).

(b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary, and intermediate grades, and for graduation not less than four years of study embracing not less than two years (4 points) of foreign languages, of which one must be Latin, two years (4 points) of mathematics, two years (4 points) of English, one year (2 points) of history, two years (4 points) of laboratory science, and six years (12 points) of further credit in language, literature, history or science.

(c) An examination in the following branches: A. Re-

quired (18 points); Mathematics (4 points); English (4 points); history (2 points); language (4 points—2 must be Latin); science (taken from physics, chemistry, botany, zoology; 4 points). B. Optional (to 12 points); English (2 points); history (6 points); language (6 points); manual training (2 points); mechanical drawing (1 point); natural science (botany, zoology; 2 points); physical science (chemistry, physics; 2 points); trigonometry (1 point); astronomy (1); civics (1); geology (1); physical geography (1); physiology and hygiene (1); political economy (1)—not more than 3 points accepted.

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks).

(d) Certificates from reputable instructors recognized by the superintendents hereinafter to be mentioned, or by any state board of medical examiners duly authorized by law, may be accepted in lieu of any part of this examination.

Section 2. This examination will be conducted by the Superintendent of Schools of Brunswick and Freeport, John Albert Cone, A. B.

Section 3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

Business colleges are not recognized.

Students from other schools who apply for advanced standing must comply with the requirements for admission to the first year, must give satisfactory evidence that they have completed a course or courses of instruction, equivalent in kind and amount to that or those in this school preceding that to which admission is sought, and must pass examinations in all of the branches previously pursued by the class which they wish to enter. Certificates of the passage of examinations in other schools are not accepted in lieu of examinations.

Students in the Senior Class of the Academic department are permitted to take the studies of the first year in the Medical department and thus are eligible for the first year final Medical examinations.

It is desired that a literal interpretation shall be placed upon the stated requirements of the candidates for matriculation, as hitherto there have been not infrequent examples of those who inquire if other conditions than those named will not serve in lieu of the examination.

The Boards of Trustees and Overseers of Bowdoin College by recommendation of the Faculty have voted that in and after 1912 one year of study in a reputable college will be required for admission to the Medical Department, in which time particular attention shall be bestowed upon physics, chemistry, biology, and either French or German. It is advised that students take two years of college work along the same lines.

#### GRADUATION.

A candidate must be twenty-one years of age, and must have devoted to his professional studies four years, including a course of instruction in each of these years in some reputable, regular, incorporated medical institution, and the last course previous to examinations must have been in this school. He must present a satisfactory certificate of good moral character from a citizen of the town in which he resides. He must also pass a satisfactory examination in the required studies previously specified and present a thesis on some medical subject, a fair copy of which must be handed to the Dean at least ten days before the beginning of the final examinations.

Time spent in pharmacy, dental and veterinary institutions, and in preparatory schools does not entitle a student to examination for advanced standing.

A student who has received the degree of A. B., B. S., or any similar degree after four years of study in a recognized college or technical school, if his studies have included a satisfac-

tory amount of chemistry, physics and biology, may be admitted as a second year student, but when so admitted he shall not gain third year standing until he has passed satisfactory examinations in the studies of the first and second years. The faculty of this School are unanimously of the opinion that only under most exceptional conditions should this requirement be made available, and that practically a student ought not to enter upon the studies of the second year until he has passed satisfactory examinations in the studies of the first year.

### METHODS OF INSTRUCTION.

In order to afford to students who contemplate entering the school an idea of the facilities presented by this institution for acquiring a knowledge of the science and art of medicine, a brief statement is here made of the scope of the work in each department and the methods adopted for imparting instruction.

#### ANATOMY.

The course in this branch extends over two years and covers every portion of human anatomy with special reference to its application in the practice of medicine and surgery. The scope is so extensive as to require a number of instructors and a division of the work; but an attempt is made to harmonize the various divisions and enable students to spend their time to the best possible advantage. In the lecture room every part of human anatomy is taken up by systems as arranged in Gerrish's Text-Book. Some subjects are treated by lectures and many by demonstrations, but the greater part of the work consists of recitations and demonstration quizzes.

First year students study embryology, histology, osteology, arthrology and visceral anatomy, including the study of the cerebro-spinal axis and organs of the special senses. Second year work includes the remainder of systematic anatomy and relational anatomy. The class room work is made valuable by the

exhibition of dissected parts, models and casts; and from time to time students are required to present drawings of different organs. Considerable attention is also paid to surface anatomy, which is studied on the living model.

During the first year, every tissue and organ is studied microscopically in the histological laboratory and reproduced by free hand drawing. Late in the term, first year students dissect some of the higher vertebrates or such parts of human anatomy as are included in their work. In this way they not only reinforce their text book knowledge but acquire manual dexterity invaluable to them for the dissecting-room work of their second year. The instruction in embryology is given by means of lectures, demonstrations and quizzes.

The practical gross anatomy is taken up late in the second year after the entire subject of anatomy has been studied by systems in the class room. A period of six weeks is devoted to this work, during which time no other exercises are held for second year men in this or any other department and each student is required to dissect an entire lateral half of the human body.

At the end of the first year students are required to pass a written and an oral examination in the work of the year and to identify organs and tissues that they have studied, gross and microscopic. Second year students must pass a written and oral examination in the work of their year and identify the parts of the dissected human subject.

Before coming to the school students can do much to equip themselves for appreciation of human anatomy by making dissections of some lower animals and are advised to follow the directions prescribed in, "Physiology Practicums" (which will be sent post-paid for one dollar by the author, Prof. B. G. Wilder, Ithaca, N. Y.) or Davison's Mammalian Anatomy.

The Anatomical Museum is well supplied with wet and dry specimens, casts and models and a large number of disarticulated skeletons are provided which may be borrowed by the class.

## PHYSIOLOGY.

Instruction in this department is conducted with reference to the practical application of the facts of human physiology to the needs of the student, in his study of the diagnosis and treatment of disease. Class room demonstrations and experimental laboratory teaching are employed, so far as they can be made to serve this purpose.

The instruction will be given by practical laboratory work, text book recitation and supplementary lectures.

The laboratory is fully equipped with the Harvard apparatus.

The work of the first year will be devoted to study by practical laboratory exercises, extending over half the term, of the functions of Nutrition. Special attention will be given to the physiology of nerve and muscle, of the Blood, including its microscopical study; Digestion and the phenomena and physics of the Circulation and Respiration. Students will be taught to demonstrate for themselves the essential facts connected with these functions.

Written reviews will be held from time to time besides regular quizzes upon both the didactic and laboratory work.

The work of the second year will be devoted to the study of Reproduction, the Nervous System, the Special Senses and the physiology of Voice and Speech.

The department is well equipped with charts, models and apparatus for demonstration and experimental work, admirably adapted to aid in giving students a thoroughly practical course in Physiology.

A laboratory fee of \$2.00 will be charged, to defray cost of material, which must be paid in advance at the Dean's office before beginning the laboratory course. Students will furnish at their own cost necessary instruments for nerve-muscle dissection and will be charged extra with the cost of any injury to apparatus.

In connection with this course several hours will be devoted to the subject of Personal Hygiene.

## CHEMISTRY.

The chemical courses extend over the first two years. They consist of lectures, conferences and laboratory work, occupying from five to nine hours per week for each class. As a knowledge of general inorganic chemistry is required for admission, first year men begin with the application of general chemistry to the qualitative analysis of simple substances. This is followed by the principles and practice of quantitative analysis, especially volumetric.

The examples used in analysis are selected with special reference to the work of a physician, and include water, air and the inorganic poisons. The analytical courses take the first half year.

The second half year with first year men is given to general organic chemistry, in which the structure, preparation and relation of structure to properties are illustrated in cases of the simpler compounds.

Second year students begin with a study of the more complex organic compounds related to medicine, such as the synthetic coal tar compounds, the alkaloids, ptomaines and leucomains.

This is followed by physiological chemistry including analysis of urine and other secretions.

The aim is to make the chemical courses as practical as possible. To this end the student is taught to prepare many of the solutions and test substances, as well as to use them. He is taught also how to construct apparatus, manipulate glass tubing, etc. The facilities afforded by the Searles Science Building make it possible to do this to an unusual degree.

Students who have completed in other schools, courses of study equivalent to the above, may, upon examination, be excused from any of them.

Each student is required to pay in advance at the Dean's office a laboratory fee, covering the average cost of chemicals, gas and water. This is \$3 for the first year men and \$2 for

second. In addition each will pay for apparatus broken or not returned at the end of the term.

#### OBSTETRICS

Instruction in this department will be given by lectures and recitations. The instructor in Obstetrics will demonstrate for the class, in sections, work on the manikin; the diagnosis of position and presentation, the mechanism of normal labor; the manoeuvres necessary in the delivery of abnormal cases, version and application of forceps. Each member of the class will have a chance to perform these various manipulations.

It is hoped that an arrangement will be made whereby the city maternity cases will be at the disposal of the teachers, so clinical instruction may be given to the class in sections, and individual cases furnished for each member.

#### INTERNAL MEDICINE.

Instruction in this department continues throughout the third and fourth years. A large part of the third year is devoted mainly to the study of Diagnosis. The remaining weeks of the course include consideration of special diseases following the order usually found in standard text books. The fourth year comprehends the study of such special diseases as were not considered in the preceding year.

In connection with this department there will be given, as time affords, special and additional instruction relating to the conduct of life insurance examinations.

During both years class room instruction is given didactically and by means of regular recitations.

A clinic is held at the Maine General Hospital upon each Thursday morning from nine to eleven o'clock; the material being received from the wards of the hospital and occasionally from outside sources.

Care is taken to afford the students opportunities for personal examination of cases with the prominent object of having them

become familiar with physical signs.

At the Maine Eye and Ear Infirmary the students of this school are offered the opportunity of attending the clinics as often and as frequently as time will allow them to do so. Cases may be seen here which pertain to internal medicine.

This department recognizes with that of Surgery our special indebtedness to the Staff of the Portland Charitable Dispensary in that it affords sections of our classes opportunities for clinical observation and physical exploration.

It is hoped that material of the City Hospital and patients out of the hospital, under the care of the City Physician, may be made available during the coming year.

#### PATHOLOGY AND BACTERIOLOGY.

The new, commodious and amply equipped laboratory in Seth Adams Hall gives excellent facilities for instruction in bacteriology and pathological histology. The course in clinical pathology is given in the laboratory at the school building in Portland.

Instruction is given by lectures, recitations and laboratory work. For convenience it is divided into four courses.

1. Bacteriology. This course is given to second year students and occupies fourteen hours a week from the beginning of the term until the Christmas recess. Each student is required to cultivate on media twelve varieties of pathogenic bacteria and to study their characteristics. Principles of disinfection are studied, and verified by experiment. A limited number of inoculation experiments are performed. Students make bacteriological examination of water and milk. Special attention is given to the laboratory diagnosis of tuberculosis, diphtheria and typhoid fever.

2. General Pathology, including Pathological Histology. This course is given to second year students. Instruction occupies fourteen hours each week, and lasts from January 1st to

April 1st. McFarland's text book is used as a basis for this course. The text book is supplemented by lectures on special subjects. As far as possible the consideration of a subject in the class room is followed by a study of the same subject in the laboratory. During the latter part of the course much time is given to diagnosis work upon microscopical preparations.

3. Blood Examination. This is a short course given to second year students during the last week in May and the first week in June. Students are trained in counting red and white corpuscles, in estimating the amount of hemoglobin, in preparing and examining fresh and stained specimens.

4. Clinical Pathology. This course is given to third year students. It includes instruction given as opportunity occurs at surgical clinics and autopsies, also a fifty-hour course at the school laboratory in Portland. In this course each student examines microscopically tissues and other pathological material obtained at the Maine General Hospital. The Maine Eye and Ear Infirmary also furnishes pathological material and offers an opportunity for advanced students to do practical work in the laboratory of the Infirmary.

#### SURGERY.

The instruction in surgery is given by lectures, recitations, demonstrations, clinics, diagnosis exercises on the patient, and operations on the cadaver. It extends throughout the third and fourth years of the course, and in the highest possible degree is practical in character.

In the didactic course the recitation method is employed for the most part, as being particularly helpful to the students,—necessitating careful preparation of each lesson, allowing no essential point to be slighted, and stimulating pride by the certainty of each that his work will be compared with that of his fellows. But the lecture method is used whenever it seems serviceable, as in the introduction of new topics, the presenta-

tion of the salient features of unfamiliar subjects, and the explanation or amplification of matters not adequately treated in the text book.

The students perform a large variety of operations upon the cadaver, under the immediate direction and supervision of the teacher. The application of bandages and other dressings is taught in the most practical manner.

The principal clinical teaching is given at the Maine General Hospital by the six visiting surgeons, all of whom are professors, assistant professors, or clinical instructors in the School. Twice in each week some of these teachers hold exercises in diagnosis, in which the students are instructed in proper methods, and privileged to make personal examination of cases. Sections of the class are taken in turn through the wards, and are given opportunities for the observation of the after-treatment and progress of patients, upon whom they have seen operations performed. A system of notification by telephone enables the students to obtain prompt information of accident cases, which are brought into the Hospital. The amount of clinical material at this institution far exceeds the capacity of the classes to appropriate it without neglecting other and essential studies. The surgeons of the Portland Charitable Dispensary permit sections of the class to observe cases at their daily service—a privilege highly valued and constantly accepted, as the kind of diseases is largely different from those usually seen at the Hospital. The City Hospital, also, occasionally presents interesting and useful material.

#### MATERIA MEDICA AND THERAPEUTICS.

Instruction in this department is given during the third and fourth years.

In the third year the teaching is by lectures and quizzes. Special attention is given to the study of pharmacology, or the action of drugs; as it is only by a thorough knowledge of this

part of the subject that medicines can be properly employed for the correction of the abnormal conditions found in disease.

Considerable time, every week, is devoted to prescription writing. By this exercise, students not only learn to write prescriptions correctly, but to make application of their knowledge of drugs in the treatment of disease. They are required to prescribe for supposed patients, a description of whose symptoms has been given to them. These prescriptions are put before the class for criticism and discussion, and have proved very useful in making their knowledge of drugs definite and practical.

In the fourth year the lectures and quizzes will be continued, and there will also be a recitation course in practical therapeutics. These courses supplement each other. In the course of Materia Medica we study individual drugs, and learn how they may modify certain conditions, which may be found in many different diseases. In the course on therapeutics, we study the symptoms of a given disease, and learn what different drugs we may employ to relieve them.

#### MEDICAL JURISPRUDENCE.

The instruction in Medical Jurisprudence will be directed mainly to an exposition of the legal duties and responsibilities of physicians and surgeons to their patients and also to their character and position as medical expert witnesses in Courts of Justice. Practical suggestions will be given for guidance in both respects.

#### GYNÆCOLOGY.

The course in Diseases of Women will continue through the third and fourth years. By a new arrangement, third year students will have work mainly didactic in character.

Dr. Willis Bean Moulton will in the fourth year conduct a course in the Pathology of Diseases of Women.

There will also be weekly clinics for fourth year students, at

which the examination of female patients will be an important feature.

#### DISEASES OF CHILDREN.

Instruction will be given, as heretofore, by recitations, lectures, clinical demonstrations, and study of cases by individual students with reports and discussions by members of the class. During the past year, clinical opportunities have been furnished by the Children's Hospital, the Female Orphan Asylum, the St. Elizabeth's Orphan Asylum, the Holy Innocents' Home, the Portland Charitable Dispensary, the Maine General Hospital, the Maine Eye and Ear Infirmary, the Maine School for the Deaf, and by the city physician of Portland and by other practitioners, from their private practice.

#### MENTAL DISEASES.

The professor of this department is chief medical officer of the Pennsylvania Hospital for the Insane. Especial efforts are made to instruct the students in the early recognition of insanity with a view to the institution of treatment at the time when it is most productive of good results.

#### OPHTHALMOLOGY AND OTOLOGY.

The instruction in these departments will be given by lectures and clinics. A weekly clinic will be held at the Hospital on Saturday, at 8.30 A. M. The various diseases will be described as cases illustrating them are available for demonstration; operations will be performed when required; and other treatment applied as may be necessary.

Daily clinics are also held at the Portland Charitable Dispensary and the Maine Eye and Ear Infirmary, to which the students have access.

#### PUBLIC HYGIENE.

Instruction is given by the Professor of Physiology who is a

member of the State Board of Health, by lectures upon the principles of Public Sanitation, considering the source and character of public water supplies and the collection and disposal of waste, with special reference to preventable diseases.

Several hours are devoted to sanitary legislation and the relations and obligations of the practicing physician to public and health boards, in the management of infectious diseases.

#### NEUROLOGY.

Instruction in Neurology will be given to the fourth class each week throughout the course by lectures, clinics and quizzes, two hours of each week being devoted to such instruction.

#### GENITO-URINARY SURGERY.

Instruction in Genito-Urinary Surgery will be given to the fourth class each week during the first half of the course.

#### DERMATOLOGY.

Instruction in Dermatology will be given to the third year class each week during the first twenty-four weeks.

#### ORTHOPEDIC SURGERY.

A clinic in Orthopedic Surgery will be held at the Hospital on each Friday morning at 9 A. M.

#### DISEASES OF THE NOSE AND THROAT.

The fourth class will receive special instruction, both didactic and clinical in Diseases of the Nose and Throat, weekly throughout the course.

## MEDICAL SCHOOL OF MAINE

## SCHEDULE FOR THE FIRST YEAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ANATOMY		8—11		8—11	8—11	
CHEMISTRY	2.30—5.30		2.30—5.30		2.30—5.30	
PHYSIOLOGY AND PERSONAL HYGIENE						8—11
HISTOLOGY	8—11					
April 5—May 18 ANATOMY (Dissecting)		11—12 1.30—5.30		8—11 1.30—5.30		1.30—5.30

## SCHEDULE FOR THE SECOND YEAR

## MEDICAL SCHOOL OF MAINE

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	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ANATOMY		8—9			8—9	
CHEMISTRY		10—12		10—12		8—11
PHYSIOLOGY		Jan. and Feb. 8—11		8—11		
PATHOLOGY AND BACTERIOLOGY		2.00—5.30	2.00—5.30	2.00—5.30	2.00—5.30	
	8—11.30 1.30—5.30	8—11.30 1.30—5.30	8—11.30 1.30—5.30	8—11.30 1.30—5.30	8—11.30 1.30—5.30	8—11.30 1.30—5.30
April 5—May 18 ANATOMY (Dissecting)						

## MEDICAL SCHOOL OF MAINE

## SCHEDULE FOR THE THIRD YEAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
INTERNAL MEDICINE	3.30—4.30*			9—11C 4.30—5.30	3.30—4.30	
SURGERY	8—9B 10—12C	10—12C	8—9B 10—12C	8—9B 10—12C	10—12C	10—11C
MATERIA MEDICA AND THERAPEUTICS	9—10A		2—3A		9—10A	
OPHTHALMOLOGY AND OTOTOLOGY						8.30—10
GYNECOLOGY				9—10B		
CLINICAL PATHOLOGY After April 5		2—5			2—5	
OBSTETRICS	10—11B	8—9Ax				10—11
DERMATOLOGY Twenty-four weeks			8—9			

A Lecture room on first floor. B Lecture room on second floor. C Clinic; x Quiz. \*Every alternate week.

## SCHEDULE FOR THE FOURTH YEAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
INTERNAL MEDICINE	2—3A 3.30—4.30*			9—11C	2—3A	
SURGERY	10—11C	8—9B	10—12D	11—12D	8—9B 11—12C	10—1C
MATERIA MEDICA AND THERAPEUTICS		2—3B		2—3A		
MEDICAL JURISPRUDENCE					Hours of instruction to be hereafter announced.	
PUBLIC HYGIENE					Hours of instruction to be hereafter announced.	
GYNECOLOGY		10—12D				
MENTAL DISEASES					Hours of instruction to be hereafter announced.	

## SCHEDULE FOR THE FOURTH YEAR—Continued

OPHTHALMOLOGY AND OTOTOLOGY	8—9A				8.30—10C
DISEASES OF CHILDREN**	9—10A			12—1A	
GENITO-URINARY DISEASES First half term			8—9A		
NEUROLOGY	12—1A			12—1A	
ORTHOPEDICS				9—IIC	
LARYNGOLOGY AND RHINOLOGY			12—I		

A Lecture room on first floor.    B Lecture room on second floor.    C Clinic.    D Diagnosis exercise.

x Quiz.    \* Every alternate week.    \*\* Clinical work aggregating one hour per week.

## THE LIBRARY.

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The Library of the Medical School, containing over 5,000 volumes, has been combined with that of the College, which numbers over 90,000 volumes. Both collections are under the same administration and are at the service of the medical students. The more recently published medical works and current numbers of professional journals are kept in a separate room in the main library building for their especial use. It is not the policy of the school to furnish text books through its library, or to buy largely in medical literature; yet, by means of the catalogue of the Library of the Surgeon General's Office and the system of inter-library loans, the Librarian is able to procure for use in serious investigation almost any book that may be desired.

## TEXT BOOKS.

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**ANATOMY**—Gerrish. For reference, Cunningham, Piersol, Quain. Applied Anatomy, Bardeleben. For use in Histological Laboratory, Ferguson.

**PHYSIOLOGY**—For recitation work, Brubaker's Text Book of Physiology. For reference, Landois, Howell's "American Text Book of Physiology." For Laboratory, Hall's "Experimental Physiology." For reference, Porter's "Introduction to Physiology" and Sterling's "Practical Physiology."

**CHEMISTRY**—Rockwood's Chemical Analysis for Medical Students, and Physiological Chemistry. For reference, Simon, Remsen, Ogden Holland. For use in laboratory, Robinson's Qualitative Chemical Analysis.

**PUBLIC HYGIENE**—For reference, Harrington, Coplin and Bevan, Parke's "Practical Hygiene," Abbott's "Hygiene of the Transmissible Diseases."

**MATERIA MEDICA AND THERAPEUTICS**—For recitation work, Hare. For reference, White and Wilcox, H. C. Wood, Cushney, Stevens.

**PRACTICE OF MEDICINE**—Osler, Hare, Tyson. For reference, Strumpell, Loomis and Thompson's System of Practical Medicine.

**DIAGNOSTIC METHODS**—Sahli.

**PHYSICAL DIAGNOSIS**—Dacosta, Cabot, Greene.

**BACTERIOLOGY**—For reference, Abbott, McFarland, Park, Williams.

**PATHOLOGY**—For recitation, McFarland. For reference, Adami, Ziegler, Delafield and Pruden, Coplin, Green.

**CLINICAL PATHOLOGY**—For reference, Mallory and Wright, Lenhartz-Brooks, Wood, Stett, Todd.

**SURGERY**—For recitation, Brewer. For reference, Park. Minor surgery, Foote. Surgical Pathology, Warren. Surgical diagnosis, Berg. Applied Surgical Anatomy, Woolsey. Operative Surgery, Binnie, Bickham.

**OBSTETRICS**—Williams, Webster, Edgar, Hirst, Reynolds and Newell.

**DISEASES OF WOMEN**—Dudley, Penrose, Reed, Kelley 2 vols.

DISEASES OF CHILDREN—Holt, Rotch, Williams.

MEDICAL JURISPRUDENCE—Taylor with Bell's Notes, Ewell.

DISEASES OF THE EYE—Nettleship, Swanzay, DeSchweinitz.

DISEASES OF THE EAR—Bacon, Field.

NEUROLOGY—Dana, Church, Peterson, Starr.

DERMATOLOGY—Van Harlingen's Diseases of the Skin. Shamberg's Diseases of the Skin.

ORTHOPEDIC SURGERY—Bradford and Lovett.

GENITO-URINARY SURGERY—Casper, Morton, Ballenger.

NOSE AND THROAT—Bishop, Knight, Kyle, Ballinger. For reference, L. Brown.

DICTIONARIES—Dorland Illustrated, Gould, Dunglison.

## CALENDAR.

1909.

- 21 October—Thursday. Entrance Examinations: for first year students, at nine o'clock, A. M., in Brunswick.  
22 October—Friday. Re-examinations, deferred examinations and examinations for advanced standing for second year in Brunswick. in Anatomy, at nine o'clock, A. M.; in Physiology at two o'clock, P. M.; in Chemistry as appointed by the Professor.  
23 October—Saturday. Re-examinations, deferred examinations and examinations for advanced standing for third year, in Portland, in Anatomy at nine o'clock, A. M.; in Physiology at two o'clock, P. M.; in Chemistry as appointed by the Professor.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 22d and 23d at hours to be hereafter appointed.

Thanksgiving Recess from Wednesday, November 24, 1.30 P. M. to 8.00 A. M., Monday, November 29.

Recess from 4.30 P. M., Wednesday, December 22, to 8.00 A. M., Monday, January 3.

1910.

- 22 February—Tuesday, Washington's Birthday. Holiday. No exercises.  
April—Recess from noon of Saturday, March 26, to morning of Tuesday, April 5.  
30 May—Monday, Memorial Day. Holiday. No exercises.  
8 to 22 June—Examinations. Wednesday to Wednesday of second week.  
22 June—Wednesday. Commencement.  
Summer vacation, seventeen weeks.

THE MAINE GENERAL HOSPITAL, PORTLAND

